

**New Hampshire Department of Transportation
Bureau of Materials & Research**

Qualified Products List – Qualification Criteria

Section 403 – Hot Bituminous Pavement

C. ITEM 403.6 – PAVEMENT JOINT ADHESIVE

Specification – 2010 NHDOT Standard Specifications for Road and Bridge Construction, Sections 403 & 401.

Pavement joint adhesive shall be a product that is listed on the Department's Qualified Products List.

Required Submissions

QPL Product Submittal Form

The submitted form must be completely filled out and must be the current version of the form. The QPL Product Submittal Form can be obtained at www.nh.gov/dot/research.

Product Literature

Submit any product literature that is relevant to evaluation of the product.

Letter of Compliance

Submit a notarized letter, on manufacturer's letterhead, that affirms that the product meets all requirements described herein.

MSDS

Submit complete MSDS information for the submitted product.

Test Results

Submit independent test results showing conformance with the applicable specifications and the material properties specified herein. Qualifications of the independent lab must be submitted for review. Results from the National Transportation Product Evaluation Program (NTPEP) or other State Transportation agencies may be acceptable.

Qualification Criteria

Documentation

The Department will review submitted documentation to assure conformance with applicable specifications and the properties listed in the following table.

Requirements for Pavement Joint Adhesive		
Property	Test Method	Requirement
Cone Penetration, 25°C	ASTM D 5329	60 -100
Flow, 60°C	ASTM D 5329	5 mm maximum
Resilience, 25°C	ASTM D 5329	30% minimum
Ductility, 4°C	ASTM D 113	30 cm minimum
Tensile Adhesion, 25°C	ASTM D 5329	500% minimum
Softening Point	ASTM D 36	77°C minimum
Asphalt Compatibility	ASTM D 5329	Pass

Field Trail

Upon verification of conformance to specifications and required material properties, a field trail will be required. The Department will allow the product to be applied on a project as an alternative to a currently qualified joint adhesive. Although the Department will arrange for this field trial, the manufacturer is responsible for coordinating with the contractor as to schedule and supply of material.

The manufacturer shall notify the Bureau of Materials & Research at least 1 week prior to the scheduled field trial so that staff can be present to evaluate the product application.

A representative field sample from the test site shall be taken in the presence of Bureau of Materials & Research staff. The field sample shall be taken after the material has reached the application temperature specified by the manufacturer and application has commenced. The field sample shall be clearly labeled with the manufacturer name, product name, project name and number, and date sampled. The sample shall be covered with a tight fitting lid and sealed with tape to prevent contamination. A certificate of compliance (refer to <http://www.nh.gov/dot/business/contractors.htm>) stating that the product meets all specification requirements, shall accompany the field sample.

Following a one-year trial period, the joint adhesive performance will be evaluated. Of particular concern is the product's ability to maintain a sealed, un-cracked longitudinal pavement joint.

Upon successful completion of the one-year trial period, general use of the product may be allowed on a provisional basis for one year. The product will not appear on the Qualified Products List during the provisional period. Instead, a letter will be provided to the manufacturer explaining that provisional use is being allowed for the specified period of time.

A final review of product performance will be conducted at the completion of the second year. If product performance has been acceptable, the product may be added to the next issue of the Qualified Products List.

Qualification Criteria Approved by:


Administrator, Bureau of Materials & Research

The Department continues to evaluate its qualification criteria as well as products that have been qualified against them, and reserves the right to revise the criteria and/or withdraw product qualification at any time for any reason without notice.

Qualification of a product does not constitute an endorsement of the product, nor does it imply intent to purchase or specify the product.